

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE:

APPLICATION OF : STEVEN D. CLARK, PAUL MORRISON
AND PEDRO VELIS

TITLE : AMINE-FREE EMULSIFICATION OF
ALKALINE EARTH METAL
SULFONATES

SERIAL NO. : 09/621,857

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EXAMINER : REDDICK, M.

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Unofficial GROUP 3600

TO: Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir or Madam:

Enclosed herewith please find the following documents for filing relating to the above-captioned matter:

1. A Response to the Examiner's Office Action mailed May 6, 2002;
2. A Petition for Extension of Time under 37 CFR 1.136(a);
3. Check number 3510 in the amount of \$460.00 for the Extension fee;
and
4. A return post card.

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1 16. (New) The method of forming an amine-free emulsion of an alkaline earth
2 metal sulfonate compound of claim 11, wherein said alkaline earth metal sulfonate
3 is mixed with crystalline calcium carbonate.

1 17. (New) An amine-free emulsion of an alkaline earth metal sulfonate compound
2 prepared in accordance with the method of claim 13.

1 18. (New) An amine-free emulsion of an alkaline earth metal sulfonate compound
2 prepared in accordance with the method of claim 14.

2 19. (New) An amine-free emulsion of an alkaline earth metal sulfonate compound
2 prepared in accordance with the method of claim 15.

2 20. (New) An amine-free emulsion of an alkaline earth metal sulfonate compound
2 prepared in accordance with the method of claim 16.

1 9. An amine-free emulsion of an alkaline earth metal sulfonate compound
2 prepared in accordance with the method of claim 5.

10. An amine-free emulsion of an alkaline earth metal sulfonate compound
prepared in accordance with the method of claim 6.

11. (New) A method of forming an amine-free emulsion of an alkaline earth metal
sulfonate compound, said method comprising the steps of:

- 3 a) adding an associative thickener to water;
4 b) dispersing said associative thickener in said water by mixing until a
5 uniform solution of said water and said associative thickener is
6 formed;
7 c) mixing an alkaline earth metal sulfonate with at least one additive
8 selected from the group consisting of oils, waxes, microcrystalline
9 waxes, petrolatums, tall oil fatty acids, calcium salts of oxidized
10 petrolatums, nonionic surfactants, and mixtures of a linear alcohol
11 and a hydrocarbon;
12 d) adding said mixture of said alkaline earth metal sulfonate and said at
13 least one additive to said solution of said water and said associative
14 thickener; and
15 e) mixing said mixture of said alkaline earth metal sulfonate and said at
16 least one additive with said solution of said water and said associative
17 thickener until a uniform emulsion is formed.

12. (New) An amine-free emulsion of an alkaline earth metal sulfonate compound
prepared in accordance with the method of claim 11.

13. (New) The method of forming an amine-free emulsion of an alkaline earth
metal sulfonate compound of claim 11, wherein said associative thickener is
nonionic.

14. (New) The method of forming an amine-free emulsion of an alkaline earth
metal sulfonate compound of claim 11, wherein said alkaline earth metal sulfonate
is comprised of an alkaline earth metal selected from the group consisting of
Calcium, Magnesium, Sodium and Barium compounded with a sulfonate which said
sulfonate may be either alkaline or neutral.

15. (New) The method of forming an amine-free emulsion of an alkaline earth
metal sulfonate compound of claim 11, wherein said alkaline earth metal sulfonate
is mixed with at least one additive selected from the group consisting of oils,
waxes, microcrystalline waxes, petrolatums, tall oil fatty acids, calcium salts of
oxidized petrolatums, nonionic surfactants, and mixtures of a linear alcohol and a
hydrocarbon.

Date: 11/06/02 Serial No.: 09/621,857 Art Unit: 1713 Atty Docket No.: 4547-8
Applicants: GEORGE CLARK, PAUL MORRISON AND PEDRO VELIS
Title: AMINE-FREE EMULSIFICATION OF ALKALINE EARTH METAL
SULFONATES

Will the Commissioner of Patents and Trademarks Office kindly
acknowledge receipt of the following cited documents by date stamping and
returning this card to the attorney of record: 1) A Response to the Examiner's
Office Action mailed May 8, 2002; 2) A Petition for Extension of Time under
37 CFR 1.136(a); 3) Check # 3435 in the amount of \$460.00 for the extension
fee; and 4) A return postcard. Thank you.

Very truly yours,

Douglas Wm. Massinger